Leaving No One Behind in Smart Cities

Albert Graves | Program Director
World Smart Sustainable Cities Organization (WeGO)
I. Challenges in Cities and Communities
II. Key Enablers for Smart Cities
III. Role of WeGO
IV. WeGO Members’ Cases
V. WeGO in LLDCs, LDCs, and SIDS
Challenges in Cities and Communities

Photo credit from left to right: Enabling Technology, Martin Sasse/laif, Indian Express, YNA, TV Centr, The Jakarta Post.
Current Challenges

It’s not easy to build smart cities...

- Political issues
- Lack of vision and forward planning
- Lack of awareness of existing solutions
- Government changing every 4-5 years
- Weak regulatory framework
- Funding issues
- Fragmented or one-off projects
- Lack of trust from citizens
- No reliable, accurate data, moreover, no data-driven culture
- No infrastructure
- Siloed departments
- Low digital skills
- Discrepancies between paper and reality

Different Context, No One-Size-Fits-All

✓ Personalized Approach &

✓ Learning Lessons

Common Challenges
Key Enablers

Political will

Strategic vision & forward planning

Changed regulations & laws

Problem identification

Search for appropriate tech solutions

Investment in infrastructure & retrofitting

Education & seeding of knowledge-based culture

Monitors

Breaking of silos by opening discussion within government

Engagement & right incentives
private sector, academia, and civil society

Learning along the way

Small start with a story with real numbers

Citizen Centricity

Not trendy ones

Breaking of silos by opening discussion within government

Engagement & right incentives
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Learning along the way

Small start with a story with real numbers
VISION

Smart Sustainable Cities for All

MISSION

• To promote and facilitate the transformation of cities to smart sustainable cities worldwide.
• To be a global platform for cities to transform into smart sustainable cities.
• To foster international exchange, cooperation, and networking among members.
WeGO – World Smart Sustainable Cities Organization

198 Members

149 Local Governments + 31 Corporations + 18 Institutions

“Smart Sustainable Cities For All”

Partner Organizations
<table>
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<tr>
<th>Position</th>
<th>Cities/States</th>
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<tbody>
<tr>
<td>President City &amp; Secretariat</td>
<td>Seoul</td>
</tr>
<tr>
<td>Executive Vice President City</td>
<td>Makati</td>
</tr>
<tr>
<td>Vice President Cities</td>
<td>Addis Ababa, Beyoğlu, Ha Noi, Jakarta, Mexico City, Moscow, Ulyanovsk Region</td>
</tr>
<tr>
<td>Executive Committee Members</td>
<td>Bucharest, Chengdu, Goyang, Hebron, Khartoum State, Kigali, Nairobi, Pittsburgh, Seberang Perai, Ulaanbaatar</td>
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WeGO Member City Cases: Korea

**SEOUL**
- **SOCAR**
- **mVoting**

**SEJONG**
- **Solitary Citizens**

**SEONGNAM**
- **Public Safety**

- **Owl Bus**
- **"Ttareungi"**
- **120 Dasan Call Center**

Photo credit: Seoul Metropolitan Government, Sejong City, IDB report
WeGO Member City Cases: Asia-Pacific

**JAKARTA**

- Qlue
- Street Lights
- PetaJakarta
- Trafi

**MAKATI**

- Makatizen Card

**SEBERANG PERAI**

- IoT and GPS for Solid Waste Mgmt

**LA UNION**

- RxBox Telemedicine

Photo credit: Philips Lighting
WeGO in LLDC, LDC, and SIDS

- Paraguay, Asuncion
- Kazakhstan, Nur-Sultan
- Azerbaijan, Baku
- Ethiopia, Addis Ababa
- Rwanda, Kigali
- Nepal: Belbari, Belbari, Bharatpur, Birgunj, Dharan, Dhulikhel, Itahari, Kathmandu, Patharishanishchare, Pokhara, Ramgram, Ratuwamai, Sundarharaiach, Sunwal, Tarakeshwor
- Mongolia, Ulaanbaatar
- Bangladesh: Dhaka North, Dhaka South, Rajshahi
- Uzbekistan, Tashkent
- Afghanistan: Kabul, Kabul University, Ghazni, Pul-i-Alam
- Uganda: Kampala, NITA
- Tanzania, Dar es Salaam
- Zimbabwe, Harare
- Zambia, Kazama, Lunte
- Mozambique, Maputo
WeGO in LLDC, LDC, and SIDS

Needs from WeGO Members

- Government services & systems: 60%
- Mobility: 17%
- Environment: 12%
- Living: 7%
- Economy: 4%

**LLDC**
- Citizen Participation Platform
- E-Government Systems (incl. Privacy)
- E-Services (Vehicle Registry)
- Integrated Data Platform for Decision-Making
- Intelligent Transportation System
- Smart City Master Plan
- Smart Energy Grids (PV, Renewable Energy)
- Solid Waste Management
- Sustainable Public Transportation (EV, PV)
- Video Surveillance for Public Safety

**LDC**
- City Guide App for Tourism
- E-Services (Digitization)
- GIS
- Intelligent Transportation System
- Internet Connectivity
- Open Innovation Platform
- Property Data Management System
- Smart Transportation Card
- Smart City Master Plan
- Smart Parking Solutions
- Smart Street Lights
- Smart Tax Payments (Mobile, GIS integration)
- Video Surveillance for Public Safety
- Water Infrastructure

Needs from WeGO Members
Our Activities

- Strengthened Capacity Building
- Knowledge Building and Research
- Platform for Action Oriented Cooperation

Feasibility Studies & Pilot Projects
- Training Programs
- Workshops
- Regional Forums
- Citypreneurs
- Roadshows
- Awards

Civic Participation System (CPS)
- Smart Sustainable City Guidelines
- Smart Sustainable City Projects Catalog
- WeGO Quarterly

- Executive Committee Meetings
- General Assemblies
- Regional Workshops & Seminars
WeGO Program: Joint Workshop on SSC & e-Gov

SINCE 2016

132 participants & 101 speakers representing 131 cities & institutions from around the world

✓ **COMPREHENSIVE AGENDA**

- **Smart Government**
  Open Data, e-Government, m-Government, Big Data
- **Emerging Technologies**
  AI, Blockchain, Fintech
- **Smart City Areas**
  Waste, Water, Energy, Safety, Street Lights, Transportation
- **Citizen Engagement**
  Startups, Sharing Economy, Open Innovation
- **Smart Infrastructure**
  IoT, Public WiFi
- **Financing Smart City Projects**
  International support programs, PPP, startup ecosystem

✓ Consultation with Experts
✓ Visits to Jeju’s Smart City Facilities & Project Sites

ORGANIZED WITH

THE WORLD BANK
NATIONAL INFORMATION SOCIETY AGENCY
INTERNATIONAL TELECOMMUNICATION UNION
WeGO Program: Seoul SSC Training Programs

SINCE 2014

164 participants representing 104 member cities from around the world

INFORMATIVE

- Seoul’s Smart City Policies & Strategies
- Seoul’s Smart City Solutions
- Developing a Smart City Master Plan
- Emerging Technologies in Smart Cities
- Cities as Open Innovation Platforms
- Financing Smart City Projects

FIRSTHAND

Visits to Seoul’s Smart City Facilities & Project Sites

INTERACTIVE

Co-design of Action Plans

ORGANIZED WITH

SHRDC
WeGO Program: Technical Assistance

SINCE 2009

13 cities from around the world have received WeGO’s technical assistance free of charge

- Kampala, Uganda - Integrated Smart Parking System
- Bharatpur, Nepal - Integrated Smart Parking System
- Da Nang, Vietnam - Data Analytics for Smart Traffic
- La Marsa, Tunisia - Smart Waste Management System
- Seberang Perai, Malaysia - Smart Street Lamp & Traffic Light Monitoring System
- San Fernando, La Union - Civic Participation System
- Hanoi, Vietnam - Civic Participation-Based e-Government System
- Addis Ababa, Ethiopia - e-Office System
- Dar es Salaam, Tanzania - Digitalization of Administrative Tasks
- Maputo, Mozambique - Claims & Solid Waste Management
- Ulaanbaatar, Mongolia - Spatial Data Infrastructure (Underground Facilities such as Network, Pipelines and Electricity)
- Buenos Aires, Argentina - Smart Citizen Service Hub with Smart Card
WeGO Products & Services

WeGO SMART CITIES ACTIVATOR

Discover
One-stop shop for applications for assistance toward smart city projects, matchmaking with strategic partners, and consideration for WeGO Awards.

Plan
Guidance platform for cities in identifying stakeholders and their roles and responsibilities in planning, executing, monitoring, and evaluating smart city projects.

Exchange
Global directory of smart city projects for case sharing and benchmarking, with direct communication channels to project managers.
What is a smart city?

Homo Sapiencity

A happy city for smart people

- Livable and lovable
- Nature-friendly
- Tech-savvy

Everlasting happiness = Sustainability

→ Smart Sustainable City
20,000 cities worldwide pursuing to become smart & sustainable...
Thank You

http://we-gov.org